

IN THE CLAIMS

1. (original): A method of enhancing the natural reward system for exercise, the method comprising:

administering to a patient an opiate destruction-inhibitor.
2. (original): The method of claim 1, wherein the opiate destruction-inhibitor is administered to the patient prior to exercise by the patient.
3. (original): The method of claim 1, whereby the patient's energy is increased.
4. (original): The method of claim 1, wherein the opiate destruction-inhibitor is selected from the group consisting of hydrocinnamic acid, a D-form mono amino acid, a thiolbenzyl amino acid, a dipeptide of essential amino acids in D-form, a tripeptide of essential amino acids in D-form, an enkephalin fragment, an oligopeptide, a polypeptide, and DLPA.
5. (original): The method of claim 2, wherein the opiate destruction inhibitor is a dipeptide comprising a moiety selected from the group consisting of tyrosine and L-leucine.
6. (original): The method of claim 2, wherein the thiolbenzyl amino acid is thiolbenzyl-phenylalanine.
7. (original): The method of claim 2, wherein the D-form mono amino acid is D-PA.
8. (original): The method of claim 2, wherein the oligopeptide and polypeptide comprise a dipeptide selected from the group consisting of D-Phe, D-Leu, and D-Phe D-Met.

9. (original): The method of claim 1, further comprising administering to the patient a neurotransmitter precursor.
10. (currently amended): The method of claim [[7]] 9, wherein the neurotransmitter precursor is selected from the group consisting of a dopamine precursor, a serotonin precursor, and a GABA precursor.
11. (currently amended): The method of claim [[8]] 10, wherein the dopamine precursor is selected from the group consisting of L-Phe, L-dopa, and L-Tyr.
12. (currently amended): The method of claim [[8]] 10, wherein the serotonin precursor is selected from the group consisting of 5-hydroxytryptophan and L-Trp.
13. (currently amended): The method of claim [[8]] 10, wherein the GABA precursor is selected from the group consisting of L-Glutamine, L-glutamic acid, and L-glutamate.
14. (original): The method of claim 1, further comprising administering to the patient a dopamine precursor, a serotonin precursor and a GABA precursor.
15. (original): The method of claim 1, further comprising administering to the patient Ephedra.
16. (original): The method of claim 1, further comprising administering one or more cofactors.
17. (currently amended): The method of claim [[13]] 16, wherein the one or more cofactors is selected from the group consisting of N-acetyl-tyrosine, coleus forskohlii, L-glutamine, mucuna pruriens, rhodiola rosea, pregnenalone, chromium picolinate, chromium polynicotinate, L-Methionine, methylcobalamin-

vitamin B12, betaine-TMG, 7-oxo-DHA, acetyl-L-carnitene, green tea catechins, and L-theanine.

18. (currently amended): The method of claim [[13]] 16, wherein the cofactor enhances the natural production of an activating neurotransmitter.
19. (currently amended): The method of claim [[15]] 18, wherein the activating neurotransmitter is phenylethylamine.
20. (original): The method of claim 1, wherein the opiate destruction-inhibitor is administered daily in a daily dosage of about 150 to about 15,000 mg.
21. (original): The method of claim 1, wherein the opiate destruction-inhibitor is administered daily and is selected from the group consisting of hydrocinnamic acid in a daily dosage of about 200 mg, thiobenzyl-phenylalanine in a daily dosage of about 50mg – 100mg, D-PA in a daily dosage of about 100 to about 200 mg, and DLPA as a racemic mixture of amino acids in a daily dosage of about 200 to about 400 mg.
22. (currently amended): The method of claim [[7]] 9, wherein the neurotransmitter precursor is administered daily in a daily dosage of about 25mg to about 10,000 mg.
23. (currently amended): The method of claim [[7]] 9, wherein the neurotransmitter precursor is administered daily and is selected from the group consisting of L-Tyrosine in a daily dosage of about 9 to about 90,000 mg, L-Tryptophan in a daily dosage of about 100 to 5,000 mg, L-Glutamine in a daily dosage of about 100 to about 10,000 mg, and acetyltyrosine in a daily dosage of about 10 to about 500 mg.

24. (original): A method of enhancing the natural reward system for exercise, the method comprising: administering to a patient D-Phe, L-Phe, L-Tyr, L-Trp and L-Gln.
25. (original): A composition for enhancing the natural reward system for exercise comprising an opiate destruction-inhibitor and a precursor, wherein the precursor enhances the natural production of an activating neurotransmitter, in an amount pharmaceutically effective to enhance the natural reward system of exercise.
26. (original): The composition of claim 25, wherein the composition is at least as effective as Ephedra in increasing energy in a patient.
27. (currently amended): The composition of claim [[22]] 25, wherein the opiate destruction-inhibitor is selected from the group consisting of hydrocinnamic acid, a D-form mono amino acid, a thiolbenzyl amino acid, a dipeptide of essential amino acids in D-form, a tripeptide of essential amino acids in D-form, an enkephalin fragment, an oligopeptide, a polypeptide, and DLPA.
28. (currently amended): The composition of claim [[22]] 25, wherein the opiate destruction inhibitor is a dipeptide comprising a moiety selected from the group consisting of tyrosine and L-leucine.
29. (currently amended): The composition of claim [[22]] 27, wherein the thiolbenzyl amino acid is thiolbenzyl-phenylalanine.
30. (currently amended): The composition of claim [[22]] 27, wherein the D-form mono amino acid is D-PA.
31. (currently amended): The composition of claim [[22]] 27, wherein the oligopeptide and polypeptide comprise a dipeptide selected from the group

consisting of D-Phe, D-Leu, and D-Phe D-Met.

32. (currently amended): The composition of claim [[22]] 27, wherein the neurotransmitter precursor is selected from the group consisting of a dopamine precursor, a serotonin precursor, and a GABA precursor.
33. (currently amended): The composition of claim [[28]] 32, wherein the dopamine precursor is selected from the group consisting of L-Phe, L-dopa, and L-Tyr.
34. (currently amended): The composition of claim [[28]] 32, wherein the serotonin precursor is selected from the group consisting of 5-hydroxytryptophan and L-Trp.
35. (currently amended): The composition of claim [[28]] 32, wherein the GABA precursor is selected from the group consisting of L-Glutamine, L-glutamic acid, and L-glutamate.
36. (currently amended): The composition of claim [[21]] 25, further comprising a dopamine precursor, a serotonin precursor and a GABA precursor.
37. (original): The composition of claim 25, further comprising Ephedra.
38. (currently amended): The composition of claim [[22]] 25, further comprising one or more cofactors.
39. (currently amended): The composition of claim [[33]] 38, wherein the one or more cofactors is selected from the group consisting of N-acetyl-tyrosine, coleus forskohlii, L-glutamine, mucuna pruriens, rhodiola rosea, pregnenalone, chromium picolinate, chromium polynicotinate, L-Methionine, methylcobalamin-vitamin B12, betaine-TMG, 7-oxo-DHA, acetyl-l-carnitene, green tea catechins,

and L-theanine.

40. (currently amended): The composition of claim [[33]] 38, wherein the cofactor enhances the natural production of an activating neurotransmitter.
41. (currently amended): The composition of claim [[35]] 40, wherein the activating neurotransmitter is phenylethylamine.
42. (currently amended): The composition of claim [[22]] 25, wherein the composition comprises about 150 to about 15,000 mg of the opiate destruction-inhibitor.
43. (currently amended): The composition of claim [[22]] 25, wherein the opiate destruction-inhibitor is selected from the group consisting of hydrocinnamic acid in an amount of about 200 mg, thiobenzyl-phenylalanine in an amount of about 25mg-100mg, D-PA in an amount of about 100 to about 200 mg, and DLPA as a racemic mixture of amino acids in an amount of about 200 to about 400 mg.
44. (currently amended): The composition of claim [[22]] 25, wherein the neurotransmitter precursor is selected from the group consisting of L-Tyrosine in an amount of about 9 to about 90,000 mg, L-Tryptophan in an amount of about 100 to 5,000 mg, L-Glutamine in an amount of about 100 to about 10,000 mg, and acetyltyrosine in an amount of about 10 to about 500 mg.
45. (original): A composition for enhancing the natural reward system for exercise consisting essentially of D-Phe, L-Phe, L-Tyr, L-Trp and L-Gln.